

1 59. (New) A method as recited in claim 57, wherein the second language is a
2 distilled form of the first language, and wherein sending the processed resource
3 to the mobile device comprises sending the resource to the mobile device in the
4 second language over the wireless network, such that the resource sent to the
5 mobile device is a compressed form of the resource obtained by the network
6 node from a remote processing system on the wireline network.

1 60. (New) A method as recited in claim 56, wherein processing the resource
2 comprises encryption or decryption.

1 61. (New) A method as recited in claim 56, wherein the network node comprises
2 a gateway server to couple the wireless network to the wireline data network.

1 62. (New) A method as recited in claim 56, wherein the network node comprises
2 a proxy server to proxy requests from the mobile device to remote servers on the
3 wireline network.

1 63. (New) A method as recited in claim 56, further comprising:
2 operating the network node to communicate with the mobile device over
3 the wireless network using a first protocol; and
4 operating the network node to communicate over the wireline network
5 using a second protocol different from the first protocol.

1 64. (New) A method as recited in claim 56, further comprising operating the
2 network node to collect transaction and billing information relating to
3 communication between the mobile device and the remote processing system.

1 65. (New) A method as recited in claim 56, wherein the network node comprises
2 an HTTP server.

1 66. (New) A method as recited in claim 65, wherein the network node comprises
2 a UDP module in addition to the HTTP server, and wherein the HTTP server
3 uses the UDP module to communicate data with the wireless network.

1 67. (New) A method as recited in claim 56, wherein the request from the mobile
2 device comprises a request to invoke an application running on a remote
3 processing system on the wireline network, and wherein the resource is
4 generated by the application in response to the request.

1 68. (New) A method as recited in claim 56, wherein the request from the mobile
2 device comprises an HTTP GET request.

1 69. (New) A method as recited in claim 56, wherein the request from the mobile
2 device comprises a URL for identifying the resource.

1 70. (New) A method as recited in claim 56, wherein the response to the request
2 comprises a card deck comprising one or more cards.

71. (New) A method as recited in claim 70, wherein the card deck is for use by
the mobile device in generating one or more screen displays on the mobile
device.

1 72. (New) A method as recited in claim 70, further comprising storing the card
2 deck in the network node prior to the network node receiving the request from
3 the mobile device, and wherein sending the processed resource from the network
4 node to the mobile device comprises sending the card deck to the mobile device
5 in response to the request.

73. (New) A method as recited in claim 70, further comprising operating the
network node to generate the card deck dynamically in response to the request.

1 74. (New) A method as recited in claim 70, wherein each card specifies one or
2 more tasks to be performed on the mobile device.

1 75. (New) A method as recited in claim 56, further comprising operating the
2 network node to control access by the mobile device to resources on the wireline
3 network.

1 76. (New) A method comprising:

2 receiving a request at a local server system coupled to a wireless network
3 and a wireline data network, wherein the request originates from a mobile device
4 operating on the wireless network, and wherein the request is for a hypermedia
5 based resource stored in a remote server system on the wireline data network;
6 obtaining the hypermedia based resource over the wireline data network,
7 using the local server system;

8 processing the hypermedia based resource in the local server system to
9 make the hypermedia based resource more compatible with the mobile device or
10 the wireless network or both; and

11 sending the processed hypermedia based resource from the local server
12 system to the mobile device over the wireless network as a response to the
13 request.

1 77. (New) A method as recited in claim 76, wherein the local server system
2 comprises a gateway server to couple the wireless network to the wireline data
3 network.

1 78. (New) A method as recited in claim 76, wherein the local server system
2 comprises a proxy server to proxy requests from the mobile device to remote
3 servers on the wireline data network.

1 79. (New) A method as recited in claim 76, wherein said server includes
2 converting the hypermedia based resource from a first language used on the
3 wireline data network to a second language used on the wireless network.

1 80. (New) A method as recited in claim 79, wherein the hypermedia based
2 resource comprises a markup language document.

1 81. (New) A method as recited in claim 79, wherein the second language is a
2 distilled form of the first language, and wherein sending the processed
3 hypermedia based resource to the mobile device comprises sending the
4 hypermedia based resource to the mobile device in the second language over the
5 wireless network, such that the hypermedia based resource sent to the mobile
6 device is a compressed form of the hypermedia based resource obtained from the
7 remote server system.

1 82. (New) A method as recited in claim 81, wherein the wireless network has a
2 lower bandwidth than the wireline data network.

1 83. (New) A method as recited in claim 76, wherein server the resource
2 comprises encryption or decryption.

1 84. (New) A method as recited in claim 76, further comprising operating the
2 local server system to communicate with the mobile device over the wireless
3 network using a first protocol and communicating over the wireline data
4 network using a second protocol different from the first protocol.

1 85. (New) A method as recited in claim 76, further comprising controlling access
2 by the mobile device to resources on the wireline data network.

1 86. (New) A method as recited in claim 76, further comprising collecting
2 transaction and billing information relating to communication between the
3 mobile device and the remote server system.

1 87. (New) A method as recited in claim 76, wherein the local server system
2 comprises an HTTP server.

1 88. (New) A method as recited in claim 87, wherein the local server system
2 comprises a UDP module in addition to the HTTP server, and wherein the HTTP
3 server uses the UDP module to communicate data with the wireless network.

1 89. (New) A method as recited in claim 76, wherein the request from the mobile
2 device comprises a request to invoke an application running on the server on the
3 wireline data network, and wherein the resource is generated by the application
4 in response to the request.

1 90. (New) A method as recited in claim 76, wherein the request from the mobile
2 device comprises an HTTP GET request.

1 91. (New) A method as recited in claim 76, wherein the request from the mobile
2 device comprises a URL for identifying the resource.

1 92. (New) A method as recited in claim 76, wherein the response to the request
2 comprises a card deck comprising one or more cards.

1 93. (New) A method as recited in claim 92, wherein the card deck is for use by
2 the mobile device in generating one or more screen displays on the mobile
3 device.

1 94. (New) A method as recited in claim 92, further comprising storing the card
2 deck in the local server system prior to receiving the request from the mobile

3 device, and wherein sending the processed hypermedia based resource from the
4 local server system to the mobile device comprises sending the card deck to the
5 mobile device in response to the request.

1 95. (New) A method as recited in claim 92, further comprising generating the
2 card deck dynamically in response to the request.

1 96. (New) A method as recited in claim 92, wherein each card specifies one or
2 more tasks to be performed on the mobile device.

1 97. (New) A server computer comprising:
2 a processor;
3 a first communication interface to communicate with a mobile device over
4 a wireless network;
5 a second communication interface to communicate with a remote
6 processing system over a wireline data network; and
7 a storage facility storing instructions for execution by the processor to
8 cause the server computer to execute a process which includes
9 receiving a request for a resource on the wireline network from the
10 mobile device over the wireless network;
11 obtaining the resource over the wireline network;
12 processing the resource to make the resource more compatible
13 with the mobile device or the wireless network or both; and
14 sending the processed resource to the mobile device over the
15 wireless network as a response to the request.

1 98. (New) A server computer as recited in claim 97, wherein processing the
2 resource comprises converting the resource from a first language used on the
3 wireline network to a second language used on the wireless network.

1 99. (New) A server computer as recited in claim 98, wherein the resource
2 comprises a mark-up language document.

1 100. (New) A server computer as recited in claim 98, wherein the second
2 language is a distilled form of the first language, and wherein sending the
3 processed resource to the mobile device comprises sending the resource to the
4 mobile device in the second language over the wireless network, such that the
5 resource sent to the mobile device is a compressed form of the resource obtained
6 from the remote processing system.

1 101. (New) A server computer as recited in claim 100, wherein the wireless
2 network has a lower bandwidth than the wireline network.

1 102. (New) A server computer as recited in claim 97, wherein processing the
2 resource comprises encryption or decryption.

1 103. (New) A server computer as recited in claim 97, wherein said process
2 further comprises communicating with the mobile device over the wireless
3 network using a first protocol and communicating over the wireline network
4 using a second protocol different from the first protocol.

1 104. (New) A server computer as recited in claim 97, wherein said process
2 further comprises controlling access by the mobile device to resources on the
3 wireline network.

1 105. (New) A server computer as recited in claim 97, wherein said process
2 further comprises collecting transaction and billing information relating to
3 communication between the mobile device and the remote processing system.

1 106. (New) A server computer as recited in claim 97, wherein the server
2 computer operates as a gateway to couple the wireless network to the wireline
3 data network.

1 107. (New) A server computer as recited in claim 97, wherein the server
2 computer operates as a proxy to proxy requests from the mobile device to remote
3 systems on the wireline data network.

1 108. (New) A server computer as recited in claim 97, wherein the server
2 computer comprises an HTTP server.

1 109. (New) A server computer as recited in claim 108, wherein the server
2 computer comprises a UDP module in addition to the HTTP server, and wherein
3 the HTTP server uses the UDP module to communicate data with the wireless
4 network.

1 110. (New) A server computer as recited in claim 97, wherein the request from
2 the mobile device comprises a request to invoke an application running on the
3 remote processing system on the wireline network, and wherein the resource is
4 generated by the application in response to the request.

1 111. (New) A server computer as recited in claim 97, wherein the request from
2 the mobile device comprises an HTTP GET request.

1 112. (New) A server computer as recited in claim 97, wherein the request from
2 the mobile device comprises a URL for identifying the resource.

1 113. (New) A server computer as recited in claim 97, wherein the response to
2 the request comprises a card deck comprising one or more cards.

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1 114. (New) A server computer as recited in claim 113, wherein the card deck is
2 for use by the mobile device in generating one or more screen displays on the
3 mobile device.

1 115. (New) A server computer as recited in claim 113, wherein the card deck is
2 stored in the server computer prior to the request from the mobile device, and
3 wherein said process further comprises sending the card deck to the mobile
4 device in response to the request.

1 116. (New) A server computer as recited in claim 113, wherein said process
2 further comprises generating the card deck dynamically in response to the
3 request.

1 117. (New) A server computer as recited in claim 113, wherein each card
2 specifies one or more tasks to be performed on the mobile device.

1 118. (New) A network apparatus coupled to a wireless network and to a
2 wireline network and comprising:
3 means for receiving a request over the wireless network at the network
4 apparatus, wherein the request originates from a mobile device on the wireless
5 network and is for a resource on the wireline network;

6 means for using the network apparatus to obtain the resource over the
7 wireline network;

8 means for processing the resource in the network apparatus to make the
9 resource more compatible with the mobile device or the wireless network or
10 both; and

11 means for sending the processed resource from the network apparatus to
12 the mobile device over the wireless network as a response to the request.